

WHAT IS CLAIMED IS:

1. A rear derailleur for a bicycle, comprising:

a base member having an installation area for installing to a bicycle body;

a parallel rocking member;

a pair of parallel cranks interposed between said base member and said parallel rocking member, for constituting an actual parallel link mechanism together with those members;

a guide arm provided on said parallel rocking member so as to be freely rockable around a first rocking axis parallel with a rear wheel axle axis;

a guide sprocket provided on said guide arm so as to be freely rotatable around an axis parallel with said first rocking axis;

a tension arm provided on said parallel rocking member so as to be rockable around a second rocking axis parallel with said rear wheel axle axis;

a tension sprocket provided on said tension arm so as to be freely rotatable around a parallel axis with said second rocking axis; and

a biasing spring provided between said tension arm and said parallel rocking member in order to bias said tension sprocket toward the rear of said bicycle.

2. A rear derailleur according to Claim 1, wherein a link rocking axis which said parallel link mechanism rocks is orthogonal to said rear wheel axle axis.

3. A rear derailleur according to Claim 1, wherein a link rocking axis which said parallel link mechanism rocks is inclined toward said rear wheel axle axis.

4. A rear derailleur according to Claim 1, wherein said first rocking axis is located at a side forward of a bicycle as compared with said second rocking axis.

5. A rear derailleur according to Claim 1, wherein the distance on said tension arm between said second rocking axis and an axis of said tension sprocket is longer than that on said guide arm between said first rocking axis and the axis of said guide sprocket.

6. A rear derailleur according to Claim 1, wherein said installation area has a through hole for passing through a fixing bolt when installing to the bicycle body.

7. A rear derailleur according to Claim 1, wherein a cable pulley over which a control cable is looped is rotatably provided

relative to said base member.

8. A rear derailleur according to Claim 7, wherein said cable pulley is provided with a roller bearing for reducing friction due to the rotation.

9. A rear derailleur according to Claim 7, wherein said through hole and said cable pulley are concentric.

10. A rear derailleur according to Claim 7, wherein said through hole and said cable pulley are offset.

11. A rear derailleur according to Claim 1, wherein said base member can pivotally be installed to said bicycle body through said through hole and said base member is provided with an adjustable stopper in order to limit its pivot position relative to said bicycle body.

12. A rear derailleur according to Claim 1, wherein said installation area is a bracket member independent of said base member body, and this base member body is pivotally installed to this bracket member.

13. A rear derailleur according to Claim 12, wherein said base

member is provided with an adjustable stopper in order to limit its pivot position relative to said bracket member.

14. A rear derailleur according to Claim 1, wherein one of said parallel cranks is provided with a cable fixing means for fixing a control cable.

15. A rear derailleur according to Claim 1, wherein said rear derailleur has been installed to the bicycle body through said installation area and a plurality of rear chain wheels, chains of which are replaced by means of this rear derailleur are coaxially fixed to a rear wheel axle.

16. A bicycle according to Claim 15, wherein to a pedal crankshaft this bicycle has, there are fixed a plurality of front chain wheels coaxial thereto and there is provided a front derailleur for replacing said chain.